

1. Write the word True or False for the following statements.

<u>True</u>	1. If you burn yourself, immediately run cold water over the burned area and inform your teacher.
<u>False</u>	2. If you cut yourself, rinse the cut with cold water. <i>after</i> .
<u>False</u>	3. If the Bunsen burner doesn't appear to be working properly, look down the barrel of the burner to see if the flame is coming up the barrel part way.
<u>True</u>	4. Safety glasses are to be worn at all times in the laboratory.
<u>True</u>	5. Most fire extinguishers in schools are class ABC fire extinguishers.
<u>False</u>	6. Class A fire extinguishers are used for radioactive substances.
<u>True</u>	7. Corrosive substances such as acids and bases may be washed down the drain, but should be properly diluted.
<u>False</u>	8. DO NOT eat, or drink in the laboratory. Chewing gum or candy is acceptable.
<u>False</u>	9. The proper technique for smelling a substance is to breathe in carefully as you hold the container near your nose.
<u>False</u>	10. Only taste substances that you have been instructed to taste in the laboratory.

1. T  
 2. F  
 3. E  
 4. T  
 5. T  
 6. F  
 7. T  
 8. F  
 9. F  
 10. F

/10

2. Do the following metric conversions. Be sure to show some work for questions that are worth more than one point.

a.  $4.89 \text{ nL} = \frac{1 \text{ L}}{10^9 \text{ nL}} = 4.89 \times 10^{-9} \text{ nL}^{11}$

b.  $3.3 \times 10^{-8} \text{ km} = \frac{10^3 \text{ m}}{1 \text{ km}} \times \frac{10^2 \text{ dm}}{1 \text{ m}} = 3.3 \times 10^{12} \text{ dm}^{12}$

c.  $56 \text{ mmol} = \frac{1 \text{ mol}}{10^3 \text{ mmol}} \times \frac{10^{12} \text{ kmol}}{10^3 \text{ mol}} = 5.6 \times 10^{-5} \text{ kmol}$

d.  $2.2 \times 10^{-20} \text{ } \mu\text{g} = \frac{1 \text{ g}}{10^6 \text{ } \mu\text{g}} = 2.2 \times 10^{-26} \text{ g}^{11}$

e.  $49 \text{ mm} = \frac{1 \text{ m}}{10^3 \text{ mm}} \times \frac{10^2 \text{ cm}}{1 \text{ m}} = 4.9 \times 10^{-1} \text{ cm}^{12}$

$= 4.9$